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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,492	12/14/2005	Naoki Ohashi	052562	4637
38834	7590	11/01/2007	EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			LEE, KYUNG S	
1250 CONNECTICUT AVENUE, NW			ART UNIT	PAPER NUMBER
SUITE 700			2832	
WASHINGTON, DC 20036				
MAIL DATE		DELIVERY MODE		
11/01/2007		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/537,492	OHASHI ET AL.
	Examiner	Art Unit
	K. Richard Lee	2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 04 August 2005.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-3 and 6-10 is/are rejected.
- 7) Claim(s) 4,11 and 12 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 04 August 2005 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 0805.
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-3 and 6-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Atsushi (JP2000-228302; applicant submitted).

3. Atsushi teaches a zinc resistor [0001 and fig. 1] comprising a pair of opposed zinc-oxide single crystal 11 and 12 each containing cobalt and manganese [0030] dissolved therein, and an oxide containing bismuth and boron 13 [0031 forming an oxide paste] between the zinc-oxide crystal, wherein the zinc-oxide resistor exhibits a varistor characteristics [0001], and the bismuth-boron oxide interface layer is formed as a bismuth and boron oxide glass layer by the action of the boron contained therein.

4. Regarding claim 2, Atsushi discloses the cobalt in an amount of 0.5 mol% or more with respect to zinc of 81.38g, since Atsushi discloses 0.954g of cobalt [0030] whereas current invention shows 0.1517g of cobalt in page 16, line of the current specification.

5. Regarding claim 3, Atsushi similarly discloses 0.414g of manganese and current invention shows 0.16431g of manganese. Thus, meeting the amount of 0.05 mol% or more.

6. Regarding claim 6, the operating voltage is 3.0 to 3.3 volts [0008].

7. Regarding claims 7 and 8, zinc oxide varistor with repeated layers, connected in electrical series, is disclosed in fig. 3. Voltage is as disclosed above in claim 6.

8. Regarding claims 9 and 10, claimed method of producing a zinc oxide varistor is inherent in view of the product as taught by Atsushi.

***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

10. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Atsushi in view of Toyoshige (JP2-219203; applicant submitted).

11. Atsushi teaches the claimed invention except for the varistor exhibiting an alpha – value of 20 or more as a performance index. Toyoshige teaches a manufacturing of a varistor device, wherein the resulting element can be controlled to have desired non-linear coefficient (alpha). It would have been obvious to one having ordinary skill in the art at the time the invention was made to have controlled the alpha as desired.

***Allowable Subject Matter***

12. Claims 4, and 11-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Richard Lee whose telephone number is (571) 272-1994. The examiner can normally be reached on M and W-F from 5:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



K. Richard Lee  
Primary Examiner  
Art Unit 2832